

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Peripheral Equipment**with type designation(s)  
**AGI 300 series**

Issued to

**DEIF A/S**  
**Skive, Midtjylland, Denmark**

is found to comply with

**DNV GL rules for classification – Ships, offshore units, and high speed and light craft****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:****Temperature A**  
**Humidity B**  
**Vibration A**  
**EMC B**  
**Enclosure C / IP66\* (front), IP20 (rear)****\* IP69K only AGI 307G and AGI 315G**Issued at **Høvik** on **2018-06-18**This Certificate is valid until **2023-06-30**.DNV GL local station: **Aalborg**Approval Engineer: **Ståle Sneen**for **DNV GL**

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**Odd Magne Nesvåg**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



## Product description

DEIF Advanced Graphical Interface, AGI 300 series.  
 Power supply voltage: 24 Vdc  
 Operating System: Microsoft Windows CE 6.0

Model name	Part No.	Description
AGI 304	1241000030A	- 4.3" TFT color display - 480x272 pixel resolution, 64K colors - 2 Ethernet ports with switch function - Standard Compass Safe Distance: 35 cm - Steering Compass Safe Distance: 20 cm
AGI 307	1241000031A	- 7" TFT color display, LED backlight - 800x480 pixel (WVGA) resolution, 64K colors - 2 Ethernet ports with switch function - Standard Compass Safe Distance: 45 cm - Steering Compass Safe Distance: 25 cm
AGI 315	1241000032A	- 15" TFT color display, LED backlight - 1024x768 pixel (XGA) resolution, 64K colors - 2 Ethernet ports with switch function - Standard Compass Safe Distance: 55 cm - Steering Compass Safe Distance: 30 cm
AGI 307G	1241000033A	- 7" TFT color display, LED backlight - 800x480 pixel (WVGA) resolution, 64K colors - 2 Ethernet ports with switch function - Projected Capacitive Touchscreen (PCT) - Standard Compass Safe Distance: 50 cm - Steering Compass Safe Distance: 35 cm
AGI 315G	1241000034A	- 15" TFT color display, LED backlight, high brightness - 1024x768 pixel (XGA) resolution, 64K colors - Projected Capacitive Touchscreen (PCT) - 2 Ethernet ports with switch function - Standard Compass Safe Distance: 55 cm - Steering Compass Safe Distance: 35 cm

### OPTIONAL MODULES

Module name	Part No.	Description
EXM CAN-CDS	1241000050A	CAN Interface - DB9 CAN connector

## Place of manufacture

DNV GL ID: 10090337

## Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

### Product certificate

If specified in the Rules, ref. Pt.4 Ch.9 Sec.1, the control and monitoring system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. After certification the clause for software control will be put into force.



Job Id: **262.1-016738-2**  
Certificate No: **TAA00001X2**

Software control

All changes in software are to be recorded as long as the system is in use on board. Documentation of major changes is to be forwarded to DNV GL for evaluation and approval before implemented on board. Certification of modified functionality may be required for the particular vessel.

**Type Approval documentation**

**Tests carried out**

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.  
For the bridge mounted components the 'Compass safe distance' was measured according to section 11.2 of IEC 60945 4<sup>th</sup> edition (2002).

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## **Marking of product**

Brand name: DEIF

Model name and part number: As listed under Product description

Serial number: Unique for each delivered item

Minimum safe distance: As listed under Product description

## **Periodical assessment**

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE